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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/708,876	03/30/2004	GENFU ZHOU	12707-US-PA	2875	
31561 75	590 10/26/2006		EXAMINER		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100			LEYKIN, RITA		
			ART UNIT	PAPER NUMBER	
			2837		
TAIWAN			DATE MAILED: 10/26/2000	DATE MAILED: 10/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/708,876	ZHOU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rita Leykin	2837				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
· _ · ·	-· action is non-final.					
·=	,—					
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-11 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>6-11</u> is/are allowed.						
)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.	_					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	·.					
10) The drawing(s) filed on is/are: a) acce		e Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Offic	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	•	(a)-(d) or (f).				
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
2. Certified copies of the priority documents3. Copies of the certified copies of the priority	• •					
application from the International Bureau	-	ved III tills National Stage				
* See the attached detailed Office action for a list of	• • • •	ved.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/10/06. 	5) Notice of Informal	Patent Application				

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DETAILED ACTION

Response to Arguments

This office action is in response to amendment and remarks filed on 8/14/06.

Applicant's arguments have been considered. Unfortunately, the provided amendment does not place application in the allowable condition for the reasons submitted below.

With respect to claim 1 applicant is invited to read carefully Maiocchi US # 5,397,972 col. 3, lines 53-64. Wherein Maiocchi teaches detection of first occurrence of zero-crossing event during preset interval of time during a start-up process and wherein applicant can find: "If such a zero-crossing occurrence is not detected within said period of time, the routine is repeated by exciting a different phase, which is functionally shifted by two phase positions from the initial phase." That reads on applicants "commutating to a shifted subsequent phase, which is functionally shifted by two phase-intervals from the predefined initial phase, if no zero crossing point to BEMF occurs in the floating winding within the maximum start-up time".

The rest of limitations in relation to claim 1 and other dependent claims can be found in the final rejection that is follows.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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2. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Maiocchi US # 5,397,972.

Maiocchi discloses a start-up procedure for a brushless sensorless motor.

Wherein, Maiocchi teaches all the limitations of the independent claim 1, including:

- Starting of a motor having multiple windings stator and rotor, (see abstract and col. 8, lines 7-25);
- Monitoring BEMF value in the not energized floating winding;
- Detection of zero-cross during preset interval of time;
- Excitation of the subsequent phase that is shifted by two-phase intervals;
- Masking of interval time period, (see col. 7, lines 27-39);
- Maintain rotation of the rotor by supplying successive phase of the winding with current in the predetermined sequence from a group of the selected windings, (see col. 8, lines 45-68, col. 9, lines 1-38);
- Monitoring changes in the BEMF level while commutating to the subsequent phase, or second subsequent phase, according to time interval monitored, (see Fig. 3, 5 and col. 10, lines 20-68, col. 11, lines 1-11, 66-68, col. 12, lines 1-4, col. 17, lines 29-39 and col. 18, lines 11-38).

Allowable Subject Matter

3. Claims 6-11 are allowed.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066.

The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571)272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita Leykin
Primary Examiner

Rifa Leps.

R.L.